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Supermicro Introduces Revolutionary Resource Saving Server Solutions

New Disaggregated Resource Saving Open Architecture and innovative Battery Backup Power (BBP®) technology deliver dramatic savings in Initial Hardware Acquisition Costs, Future Hardware Upgrade costs and Power Consumption

SAN JOSE, California, Dec. 18, 2017 /PRNewswire/ -- **Super Micro Computer, Inc.** (NASDAQ: SMCI), a global leader in enterprise computing, storage, networking solutions, and green computing technology, today expands their revolutionary new open disaggregated server architecture enabling even greater datacenter resource efficiencies.

Taking the We Keep IT Green® mission to the next level, Supermicro's disaggregated Resource Saving systems are already deployed in volume at multiple Fortune 100 datacenters. The new Supermicro disaggregated 6U SuperBlade unlocks the interdependence between the major server subsystems enabling the independent upgrade of CPU + Memory, I/O, Enclosure, Storage and Power/Cooling. Now each component can be refreshed at the optimal time to maximize generational improvements in performance and efficiency uncoupled from single monolithic server refresh cycles.

Supermicro disaggregated Resource Saving servers represent an entirely new type of computing platform. In a large server deployment, Supermicro disaggregated MicroBlade systems deliver 86% improvement in power/cooling efficiency with common shared infrastructure and 45 to 65% hardware CAPEX savings per refresh cycle with this rack scale design. Supermicro is expanding the design with new innovative Battery Backup Power (BBP®) modules that can replace traditional UPS. With BBP modules, datacenters can achieve 2% to 10% better power efficiency compared to a typical UPS and more importantly avoid UPS related outages for improved cost, uptime, and reliability. Even more resource savings with BBP modules including time and costs savings are achieved at the time of the initial datacenter configuration, build-out and deployment.

"Our new disaggregated Resource Saving architecture empowers datacenters to upgrade to future generation CPU and memory without having to replace long-lifetime server resources that have already been deployed in their racks," said Charles Liang, President and CEO of Supermicro. "As the leader in server system power efficiency and green computing, Supermicro now enables further savings by extending the life of server enclosures including networking, storage, fans and power supplies. The result is less power consumption and less waste during technology refresh cycles, which saves costs and helps preserve our Mother Earth for future generations."

One technology-leading Fortune 50 company has deployed over 50,000 Supermicro disaggregated Resource Saving 3U/6U MicroBlade servers with a Power Usage Effectiveness (PUE) of 1.06, to support the company's advanced EDA compute needs. Compared to a traditional datacenter running at 1.49 PUE or more, this new datacenter achieves an 88% improvement in overall energy efficiency. When the build-out is complete at a 35 megawatt IT load power, the company is targeting $13.18M in savings per year in total energy costs alone across the entire datacenter.

The new 6U SuperBlade system, the first of several disaggregated designs combines compute, storage, and networking into an enclosure with either 10 or 14 blade servers, up to 28 U.2 NVMe or 42 SAS SSDs, and up to four 25G or 10G Ethernet switches. The blade server nodes support dual or single Intel® Xeon® Scalable processors (up to 205 watts per processor) with 24 DIMM slots (2-socket blade) and 12 DIMM slots (1-socket blade), maximizing performance and efficiency. In addition, the servers support M.2 NVMe and Intel Optane™ drives. The enclosures use the same Ethernet switches, chassis management modules, and software as 8U/4U SuperBlade and 6U/3U MicroBlade systems for improved reliability, serviceability, and affordability. Resource savings are achieved with up to 90% reduction in cabling by deploying the 6U SuperBlade. The optional Battery Backup Power (BBP) Module provides sufficient power to the enclosure in case of power outage. This adds to the reliability of the system as it prevents data corruption or loss during transit due to power failure. The use of an expensive UPS solution also becomes optional with the available BBP Module.

The 6U SuperBlade is also a leading density optimized server which provides additional resource savings in electrically-active datacenter footprint. With up to 98 dual or single-socket blade servers with 25G or 10G Ethernet switches per 42U rack, the new 6U SuperBlade systems are perfect for a wide range of enterprise, cloud, and datacenter applications where density and compute performance are of prime consideration including Simulation, CAE, EDA, Artificial Intelligence (AI), Business Intelligence and ERP/CRM.

For more detailed information on Supermicro's portfolio of disaggregated solutions visit: https://www.supermicro.com/products/RSD/.

For more information on Supermicro's complete range of high-performance, high-efficiency Server, Storage and Networking solutions, please visit www.supermicro.com.

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About Super Micro Computer, Inc. (NASDAQ: SMCI)
Supermicro® (NASDAQ: SMCI), the leading innovator in high-performance, high-efficiency server technology is a premier provider of advanced Server Building Block Solutions® for Data Center, Cloud Computing, Enterprise IT, Hadoop/Big Data, HPC and Embedded Systems worldwide. Supermicro is committed to protecting the environment through its "We Keep IT Green®" initiative and provides customers with the most energy-efficient, environmentally-friendly solutions available on the market.

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